Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2018-06-26-03** **Date: 29-06-18**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads, drains and other works at Vinayakanagara 1st to 3rd Cross roads in ward No. 11 Kuvempunagara.
Agency	:	Karnataka Rural Infrastructure Development Limited(KRIDL),#280,59th Cross road,17th C Main road, 3rd Y Block,Rajajinagara, Bangaolre-560010
Customer's Reference	:	BBMP/EE/BTP/WO/08/2018-19
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	26-06-18
Sample ID No	:	2018-06-26-03 /02(a)
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	26-06-18

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	280	280	1.9	98.1	90-100
3	20 mm	5289	5569	37.1	62.9	30-70
4	10 mm	4700	10269	68.5	31.5	10-35
5	4.75 mm	4190	14459	96.4	3.6	0-5
6	Pan	541	15000	100.0	0	---

Assistant Executive Engineer
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BBMP, Bangalore-97

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2018-06-26-03** **Date: 29-06-18**

Sample ID No : 2018-06-26-03 /02(a)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	12.6	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.7	
3	Specific Gravity	2.67	_
4	Bulk Density(Loose) (Kg/l)	1.54	_
5	Bulk Density(Compacted) (Kg/l)	1.58	_
6	Water Absorption(%)	0.22	_

Note:

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Quality Manager

t Executive Engineer
nyapura Sub Division
P, Bangalore - 97

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : **CP-2018-06-26-03** **Date: 30-06-18**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to roads, drains and other works at Vinayakanagara 1st to 3rd Cross roads in ward No. 11 Kuvempunagara.

Agency : Karnataka Rural Infrastructure Development Limited(KRIDL),#280,59th Cross road,17th C Main road, 3rd Y Block,Rajajinagara, Bangaolre-560010

Customer's Reference : BBMP/EE/BTP/WO/08/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 26-06-18

Sample ID No : 2018-06-26-03 /01

Sample Type : Birla Super 53grade

Reference to BIS codes :
IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification ,
IS 4031 (Part 1,2 3,4,5, 6,11):1988
IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4
IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5
IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6
IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5
IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5
IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6

Date of test : 28-06-18

Environmental Conditions during test : Temperature: 26°C
Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	2.85	–
2	Finess by Air permeablity method (m^2/kg,Min)	295.5	225m^2/kg, Min
3	Density (gm/cc)	3.15	–
4	Standard Consistency (%)	28.0%	Not specified
5	Initial Setting time	185 minutes	Not less than 30 minutes
6	Final Setting time	270 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1mm	Not more than 10 mm

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Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2018-06-26-03** **Date: 05-07-18**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads, drains and other works at Vinayakanagara 1st to 3rd Cross roads in ward No. 11 Kuvempunagara.
Agency	:	Karnataka Rural Infrastructure Development Limited(KRIDL),#280,59th Cross road,17th C Main road, 3rd Y Block,Rajajinagara, Bangaolre-560010
Customer's Reference	:	BBMP/EE/BTP/WO/08/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	26-06-18
Sample ID No	:	2018-06-26-03 /01
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	28-06-18
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	29.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.0N/mm^2	Not less than 37 N/mm^2

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2018-06-26-03** **Date: 29-06-18**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads, drains and other works at Vinayakanagara 1st to 3rd Cross roads in ward No. 11 Kuvempunagara.
Agency	:	Karnataka Rural Infrastructure Development Limited(KRIDL),#280,59th Cross road,17th C Main road, 3rd Y Block,Rajajinagara, Bangaolre-560010
Customer Reference	:	BBMP/EE/BTP/WO/08/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	26-06-18
Sample ID No	:	2018-06-26-03 /02(b)
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	26-06-18

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	573	573	11.5	88.5	90-100
3	10 mm	2337	2910	58.2	41.8	25-55
4	4.75 mm	1736	4646	92.9	7.1	0-10
5	Pan	354	5000	100	0	_

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2018-06-26-03** **Date: 29-06-18**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to roads, drains and other works at Vinayakanagara 1st to 3rd Cross roads in ward No. 11 Kuvempunagara.

Agency : Karnataka Rural Infrastructure Development Limited(KRIDL),#280,59th Cross road,17th C Main road, 3rd Y Block,Rajajinagara, Bangaolre-560010

Customer's Reference : BBMP/EE/BTP/WO/08/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 26-06-18

Sample ID No : 2018-06-26-03 /03

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption

Date of test : 26-06-18

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	133	133	13.3	86.7	90-100	90-100	90-100	95-100
3	2.36 mm	189	322	32.2	67.8	60-95	75-100	85-100	95-100
4	1.18 mm	100	422	42.2	57.8	30-70	55-90	75-100	90-100
5	600 micron	180	602	60.2	39.8	15-34	35-59	60-79	80-100
6	300 micron	197	799	79.9	20.1	5-20	8-30	12-40	15-50
7	150 micron	104	903	90.3	9.7	0-10	0-10	0-10	0-15
8	Pan	97	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2018-06-26-03** **Date: 29-06-18**

Sample ID No : 2018-06-26-03 /02(b)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	12.5	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.9	
3	Specific Gravity	2.62	_
4	Bulk Density(Loose) (Kg/l)	1.52	_
5	Bulk Density(Compacted) (Kg/l)	1.58	_
6	Water Absorption(%)	0.25	_
7	Aggregate crushing Value(%)	22.4	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	23.1	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

Note:

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TEST REPORT OF PAVER BLOCK

Lab ID	:	[illegible]
Sample ID No.	:	[illegible]

Date: [illegible]

PHYSICAL PROPERTIES

Sl. No.	Tests	Result	Requirements as per IS 15658:2006
1	Water Absorption(%)	5.03	
2	Specific Gravity	2.50	
3	Material finer than 75 micron(%)	8.3	Uncoupled Plain Concrete Block Paving Units Coupled Plain Concrete Block Paving Units Manufactured From Aggregates other than

Note:
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TEST RESULTS OF STEEL

Lab ID : **CP-2018-07-12-02** **Date: 29-06-18**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to roads, drains and other works at Vinayakanagara 1st to 3rd Cross roads in ward No. 11 Kuvempunagara.

Agency : Karnataka Rural Infrastructure Development Limited(KRIDL),#280,59th Cross road,17th C Main road, 3rd Y Block,Rajajinagara, Bangaolre-560010

Customer's Reference : BBMP/EE/BTP/WO/08/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 12-07-18

Sample ID No : 2018-07-12-02 /04

Sample Type : Sunvik

Reference to BIS codes : IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.

Date of test: : 28-06-18

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Sunvik	Fe500	8	0.389	535	643	22.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	10	0.623	547	661	19.0%	Satisfactory	Satisfactory
3	Sunvik	Fe500	12	0.878	568	668	20.0%	Satisfactory	Satisfactory

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Vidyaranyapura Sub Division
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Certificate No.: TC- 5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-07-16-02** **Date: 20/07/2018**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to roads, drains and other works at Vinayakanagara 1st to 3rd Cross roads in ward No. 11 Kuvempunagara.

Agency : Karnataka Rural Infrastructure Development Limited(KRIDL),#280,59th Cross road,17th C Main road, 3rd Y Block,Rajajinagara, Bangaolre-560010

Customer's Reference : BBMP/EE/BTP/WO/08/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 16-07-18

Sample ID No : 2018-07-16-02 /01

Customer ID : RMC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 20/07/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	RMC	M20	13/07/2018	20/07/2018	149.29 X 150.34 X 149.24	22443	7.96	396.4	17.7	17.5
2	RMC	M20	13/07/2018	20/07/2018	151.59 X 150.24 X 151.59	22775	8.32	402.1	17.7	
3	RMC	M20	13/07/2018	20/07/2018	149.20 X 149.62 X 150.39	22323	7.95	383.0	17.2	

Note:

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 20/07/2018

Lab ID	:	CP/2018-07-16-01
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BWSSB, Bangalore
Address	:	Vidyaranyapura Sub Division, BWSSB, Bangalore
Project Name	:	Improvements to roads, drains and other works at Vidyaranyapura Ward No.19 Kempegowda
Agency	:	Karnataka Rural Infrastructure Development Limited(KRIDL),#80,4th Cross road,4th & Main road, 3rd T Block Rajajinagara, Bangalore-560010
Customer's Reference	:	BWSSB/EE/2018-19/
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	16-07-18
Sample ID No	:	2018-07-16-01 to 03
Customer ID	:	RMC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M30 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cubes
Date of test	:	20/07/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm²)	Average Compressive Strength (N/mm²)
1	RMC	M30	13/07/2018	20/07/2018	150.51 X 150.72 X 149.17	22466	8.615	415.6	18.5	18.4
2	RMC	M30	13/07/2018	20/07/2018	149.87 X 149.69 X 150.42	22447	8.476	409.5	18.1	
3	RMC	M30	13/07/2018	20/07/2018	149.49 X 151.01 X 151.27	22574	7.993	412.6	18.3	

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